

GUN LAYING AND POSITIONING SYSTEM WALK THROUGH PROBLEMS

Problem 1. You are a Gunnery Sergeant of a M198 howitzer platoon and have been ordered to recon and prepare a position for your platoon. Set up, orient and lay the platoon on an AOF of 1750. There is no survey control data available, and you will have to use the PLGR for location data. (GPS Position Data)

a. List the following information for the guns:

GUN #	DEFLECTION	DISTANCE	VA	GRID COORDINATE (E,N & A)
1	_____	_____	_____	_____
2	_____	_____	_____	_____
3	_____	_____	_____	_____
4.	_____	_____	_____	_____

b. Establish direction control in the platoon area, select or establish an EOL and prepare the OS survey tag.

UNIT:	AZ of OL:
OSTRA:	DISTANCE TO EOL:
E:	DESCRIPTION OF EOL:
N:	
A:	

Problem 2. You are a gunnery sergeant of an M109A5 platoon. You have been instructed to recon and prepare a position for occupation. You are to orient the platoon on an AOF of 4700 and during your briefing and map recon a SCP was identified and battalion has provided the following UTM/UPS grid coordinate for you (input position data), your grid location is _____.

a. List the following information for the guns:

GUN #	DEFLECTION	DISTANCE	VA	GRID COORDINATE (E,N & A)
1	_____	_____	_____	_____
2	_____	_____	_____	_____
3	_____	_____	_____	_____
4.	_____	_____	_____	_____

b. Establish direction control in the platoon area, select or establish an EOL and prepare the OS survey tag.

UNIT:	AZ of OL:
OSTRA:	DISTANCE TO EOL:
E:	DESCRIPTION OF EOL:
N:	
A:	

Problem 3. You are a gunnery sergeant of an M119A1 battery. Your AOF is 1650, and a map recon has shown one of the Reference Point's that battalion has provided is visible and within 2,500 meters of your future location. The grid coordinates for the reference point are _____ . Set up, orient and prepare to lay the battery.

a. List the following information for the guns:

GUN #	DEFLECTION	DISTANCE	VA	GRID COORDINATE (E,N & A)
1	_____	_____	_____	_____
2	_____	_____	_____	_____
3	_____	_____	_____	_____
4	_____	_____	_____	_____
5	_____	_____	_____	_____
6	_____	_____	_____	_____

b. Establish direction control in the platoon area, select or establish an EOL and prepare the OS survey tag.

UNIT:	AZ of OL:
OSTRA:	DISTANCE TO EOL:
E:	DESCRIPTION OF EOL:
N:	
A	

Problem 4. You are Gunnery Sergeant of an M102 battery. Your platoon will occupy a position on an AOF of 5200, your map recon of the position was a visible reference point which has been stored on your PLGR as Waypoint #XXX. Set-up, orient and prepare to lay the battery.

a. List the following information for the guns:

GUN #	DEFLECTION	DISTANCE	VA	GRID COORDINATE (E,N & A)
1	_____	_____	_____	_____
2	_____	_____	_____	_____
3	_____	_____	_____	_____
4	_____	_____	_____	_____
5	_____	_____	_____	_____
6	_____	_____	_____	_____

b. Establish direction control in the platoon area, select or establish an EOL and prepare the OS survey tag.

UNIT:	AZ of OL:
OSTRA:	DISTANCE TO EOL:
E:	
N:	DESCRIPTION OF EOL:
A	

Problem 5. You are a gunnery sergeant of an M109A5 platoon. You have been instructed to orient your platoon on an AOF of 2850, and during your movement briefing the Platoon Leader informed you that existing survey control is in position area. The following data is provided :

UNIT:	AZ of OL:
OSTRA:	DISTANCE TO EOL:
E:	
N:	DESCRIPTION OF EOL:
A	

- a. Set-up, orient and lay the platoon, list the following information for the guns:

GUN #	DEFLECTION	DISTANCE	VA	GRID COORDINATE (E,N & A)
1	_____	_____	_____	_____
2	_____	_____	_____	_____
3	_____	_____	_____	_____
4	_____	_____	_____	_____

Problem 6. You are gunnery sergeant of an M198 (four gun battery), you have been instructed to occupy a position that has no position data available. Set up, orient and prepare to lay the battery on AOF of 2840.

- a. List the following information for the guns:

GUN #	DEFLECTION	DISTANCE	VA	GRID COORDINATE (E,N & A)
1	_____	_____	_____	_____
2	_____	_____	_____	_____
3	_____	_____	_____	_____
4	_____	_____	_____	_____

- b. Establish direction control in the platoon area, select or establish an EOL and prepare the OS survey tag.

UNIT:	AZ of OL:
OSTRA:	DISTANCE TO EOL:
E:	
N:	DESCRIPTION OF EOL:
A	

- c. Perform the safety verification process with the Safety Circle.

(Note- this portion of the PE is to familiarize the GLPS, and Safety Circle operator with the bump and zero process. The key factor here is that the GPLPS does not have RED Scales/Numbers to "SEE RED, READ RED" as on the M2A2 Aiming Circle. This will mean that the Safety Circle operator will have to add 3200 mils to any reading he is given by the GLPS operator if he doesn't say the red scales on the Safety Circle.)